

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/33832

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61B18/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/082587 A1 (NODA WAYNE) 27 June 2002 (2002-06-27) paragraphs '0040!', '0049!', '0055!'; claims 1-6	1-7
X	US 2002/058933 A1 (CHRISTOPHERSON MARK A ET AL) 16 May 2002 (2002-05-16) paragraph '0085!	1-30
X	US 5 249 585 A (TURNER PAUL F ET AL) 5 October 1993 (1993-10-05) column 6, line 39 - line 57; figure 1	1-30
X	US 6 620 189 B1 (BLOOM NICOLE DENISE ET AL) 16 September 2003 (2003-09-16) column 5, line 29 - line 35	1-7
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

11 June 2004

Date of mailing of the international search report

17/06/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 6 440 157 B1 (BERAN ANTHONY V ET AL) 27 August 2002 (2002-08-27) column 6, line 41 - line 57 -----</p>	1-7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/33832

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002082587	A1	27-06-2002	US 2003114835 A1 AU 3250202 A WO 0247742 A2 US 2002077680 A1	19-06-2003 24-06-2002 20-06-2002 20-06-2002
US 2002058933	A1	16-05-2002	US 6409722 B1 WO 03047446 A1 US 2003073989 A1 US 2004092926 A1 US 2002151884 A1	25-06-2002 12-06-2003 17-04-2003 13-05-2004 17-10-2002
US 5249585	A	05-10-1993	US 4967765 A AU 9027191 A CA 2095516 A1 EP 0556284 A1 JP 6501410 T WO 9207621 A1 EP 0462302 A1 US 5220927 A US 5344435 A	06-11-1990 26-05-1992 06-05-1992 25-08-1993 17-02-1994 14-05-1992 27-12-1991 22-06-1993 06-09-1994
US 6620189	B1	16-09-2003	US 6673098 B1 AU 8292701 A CA 2416931 A1 EP 1301151 A2 JP 2004504110 T WO 0207793 A2 US 2004050154 A1 US 2004039431 A1 AU 3843401 A CA 2401222 A1 EP 1259204 A1 JP 2003524507 T WO 0164146 A1 US 2004024437 A1 US 2003135252 A1	06-01-2004 05-02-2002 31-01-2002 16-04-2003 12-02-2004 31-01-2002 18-03-2004 26-02-2004 12-09-2001 07-09-2001 27-11-2002 19-08-2003 07-09-2001 05-02-2004 17-07-2003
US 6440157	B1	27-08-2002	CA 2348707 A1 US 6143020 A	23-11-2002 07-11-2000